

OIB - HU-25C Guardian 10/20/15 Science Report

Aircraft:

[HU-25A Guardian #525](#) ([See full schedule](#))

Date:

Tuesday, October 20, 2015

Mission:

OIB

Mission Location:

Kangerlussuaq, Greenland

Mission Summary:

Mission: Falcon Southwest Coastal B (priority: medium)

This mission is one of three (with Falcon Southwest Coastal A and C), which together re-fly most of the the ?Southwest Coastal A and B? missions flown in Spring 2015. These three flights work together in an interlaced (working upward from the coast) manner. This particular flight concentrates on the second and fifth lowermost of the coast-parallel lines, plus two additional lines covering a southwestern lobe of the ice sheet near Sukkertoppen.

Weather today was not ideal for this flight. Our perusal of satellite images from the morning showed several patches of stratus cloud along the southwest margin of the ice sheet, but the progression of images in time also showed these clouds to be moving east. Because of that, we had reason to believe the area would improve by the time we got there. Also, with only one day of flight operations remaining in this campaign after today, we knew we might not get a better opportunity. As it happened, the low clouds had indeed departed the area for the most part, but some remained at the southernmost portion of the flight, where we lost several minutes of data as a result. Overall we estimate successful data acquisition across better than 90% of the flight.

All instruments performed well.

We conducted a ramp pass at 32,000' MSL just prior to landing.

Data volumes:

DMS: 20.5 Gb

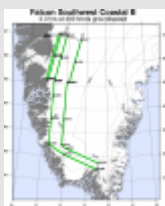
Narrow Swath ATM: 20 Gb

FLIR: 2.0 Gb

total data collection time: 3.4 hrs

Images:

Map of Falcon - Southwest Coastal B



[Read more](#)

South Greenland nunatak



[Read more](#)

Submitted by:

John Sonntag on 10/20/15

Related Flight Report:

HU-25C Guardian 10/20/15

Flight Number:

OIB2015 Arctic Southwest Coastal B

Payload Configuration:

ATM & DMS

Nav Data Collected:

No

Total Flight Time:

3.7 hours

Submitted by:

Luci Crittenden on 10/20/15

Flight Segments:

From:	BGSF	To:	BGSF
Start:	10/20/15 15:12 Z	Finish:	10/20/15 18:55 Z
Flight Time:	3.7 hours		
Log Number:	16F002	PI:	John Woods
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
Purpose of Flight:	Science		
Comments:	OIB completed the medium priority Southwest Coastal B mission out of Kangerlussuaq this afternoon. Next mission tentatively scheduled for tomorrow, Wednesday, Oct 21.		

Flight Hour Summary:

	15F005	16F002
Flight Hours Approved in SOFRS	100	
Flight Hours Previously Approved		67.4
Total Used	32.6	65.3
Total Remaining		2.1

16F002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
10/05/15	OIB2015 Arctic Sea Ice Central	Science	3.6	3.6	63.8
10/05/15	OIB2015 Arctic Sea Ice East	Science	3.8	7.4	60
10/06/15	OIB2015 Arctic Ice-Sat2 North	Science	4	11.4	56
10/07/15	OIB2015 Arctic Transit Thule to Kangerlussuaq	Transit	2	13.4	54
10/08/15	OIB2015 Arctic Southwest Coastal A	Science	3.8	17.2	50.2
10/08/15	OIB2015 Arctic Thomas-Jakobshavn 01	Science	3.7	20.9	46.5
10/09/15	OIB2015 Arctic Umanaq B	Science	3.9	24.8	42.6
10/13/15	OIB2015 Arctic Jakobshavn Equip Store	Science	2.9	27.7	39.7
10/13/15	OIB2015 Arctic Southeast Coastal A	Science	3.6	31.3	36.1
10/18/15	OIB2015 Arctic Southeast Coastal B	Science	4.1	35.4	32
10/19/15	OIB2015 Arctic Helheim-Kangerdlugussuaq	Science	3.7	39.1	28.3
10/19/15	OIB2015 Arctic Helheim-Kangerdlugussuaq Gap B	Science	3.9	43	24.4
10/20/15	OIB2015 Arctic Jakobshavn Mop-Up	Science	3.7	46.7	20.7

10/20/15	OIB2015 Arctic Southwest Coastal B	Science	3.7	50.4	17
10/21/15	OIB2015 Arctic Southwest Coastal C	Science	3.4	53.8	13.6
10/21/15	OIB2015 Arctic K-EGIG-Summit	Science	3.7	57.5	9.9
10/22/15	OIB2015 Arctic Mopup South	Science	2	59.5	7.9
10/22/15	OIB2015 Arctic Ferry BGSF-CYYR	Ferry	2.2	61.7	5.7
10/23/15	OIB2015 Arctic Ferry CYYR-KRIC	Ferry	3.3	65	2.4
10/23/15	OIB2015 Arctic Ferry CYYR-KRIC	Ferry	0.3	65.3	2.1

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

15F005 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
09/15/15	OIB #1	Check	2.7	2.7	97.3
09/20/15	OIB #2, 3, 4	Ferry	2.7	5.4	94.6
09/21/15	OIB #2, 3, 4	Ferry	2.3	7.7	92.3
09/21/15	OIB #2, 3, 4	Ferry	2	9.7	90.3
09/23/15	OIB2015 Arctic North Central Gap 02	Science	3.9	13.6	86.4
09/24/15	OIB2015 Arctic Northwest Coastal A	Science	3.7	17.3	82.7
09/25/15	OIB2015 Arctic Northwest Coastal B	Science	3.8	21.1	78.9

09/28/15	OIB2015 Arctic Sea Ice West	Science	3.7	24.8	75.2
09/30/15	OIB2015 Arctic North Central Gap 01	Science	3.9	28.7	71.3
09/30/15	OIB2015 Arctic Zachariae-79N	Science	3.9	32.6	67.4